

**ELECTRICAL ENGINEERING  
DEPARTMENT**

**B.E 2<sup>nd</sup> Year First Semester**

<b>S.No.</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Total Hours</b>	<b>Credits</b>
1.	PY 201/ PY 201H	Physics-II	4	0	0	4	4
2.	PY 202	Physics Lab	0	0	3	3	2
3.	EE 211/ EE 211H	Networks & Systems	4	0	0	4	4
4.	EE 212/ EE 212H	Electrical Measurements & Instrumentation	4	0	0	4	4
5.	EE 214/ EE 214H	Electrical Machine-I	4	0	0	4	4
6.	ENN204	Power Electronics	4	0	0	4	4
7.	ENN203/ ENN206	Signals & Systems/ Computer Networks	4	0	0	4	4
<b>Total</b>			<b>24</b>	<b>0</b>	<b>3</b>	<b>27</b>	<b>26</b>

**B.E 2<sup>nd</sup> Year Second Semester**

<b>S.No.</b>	<b>Course Code</b>	<b>Course</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Total Hours</b>	<b>Credits</b>
1.	MA 201/ MA 201H	Mathematics-III	4	0	0	4	4
2.	CH 201/ CH 201H	Chemistry-I	4	0	0	4	4
3.	CH 202	Chemistry lab	0	0	3	3	2
4.	EE 225/ EE 225H	Electric Energy Systems	4	0	0	4	4
5.	EE 226/ EE 226H	Electromagnetic Field Theory	4	0	0	4	4
6.	EE 227/ EE 227H	Analog & Digital Electronics	4	0	0	4	4

7.	EE 228/ EE 228H	Microprocessors & Interfacing	4	0	0	4	4
8.	EE 229	Departmental Lab-I	0	0	3	3	2
<b>Total</b>			<b>24</b>	<b>0</b>	<b>6</b>	<b>30</b>	<b>28</b>

### B.E 3<sup>rd</sup> Year First Semester

S.No.	Course Code	Subject	L	T	P	Total Hours	Credits
1.		Humanities-II (Elective)	3	0	0	3	3
2.		Elective-I	4	0	0	4	4
3.	EE 322/ EE 322H	Electrical Machine-II	4	0	0	4	4
4.	EE 323/ EE 323H	Switchgear & Protection	4	0	0	4	4
5.	EE 324/ EE 324H	Communication Systems	4	0	0	4	4
6.	EE 325/ EE 325H	Control Systems	4	0	0	4	4
7.	EE 326	Departmental Lab-2	0	0	3	3	2
8.	EE 327	Departmental Lab-3	0	0	3	3	2
<b>Total</b>			<b>23</b>	<b>0</b>	<b>6</b>	<b>29</b>	<b>27</b>

### B.E. 3<sup>rd</sup> year Second Semester

**EE 399      Industrial Training**

**Total Credits = 24**

<b>B.E 4<sup>th</sup> Year First Semester</b>							
<b>S.No.</b>	<b>Course Code</b>	<b>Subject</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Total Hours</b>	<b>Credits</b>
1.		Open Elective	4	0	0	4	4
2.		Elective-II	4	0	0	4	4
3.	EE 431/ EE 431H	Computer Aided Power System Analysis	4	0	0	4	4
4.	EE 432/ EE 432H	Modern Control Systems	4	0	0	4	4
5.	EE 433	Departmental Lab-4	0	0	3	3	2
6.	EE 434	Departmental Lab-5	0	0	3	3	2
7.	EE 496	Capstone Project-I	0	0	8	8	4
<b>Total</b>			<b>16</b>	<b>0</b>	<b>14</b>	<b>30</b>	<b>24</b>

<b>B.E 4<sup>th</sup> Year Second Semester</b>							
<b>S.No.</b>	<b>Course Code</b>	<b>Subject</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Total Hours</b>	<b>Credits</b>
1.		Humanities-III	4	0	0	4	4
2.		Elective-III	4	0	0	4	4
3.	EE 435/ EE 435H	Microcontrollers, PLCs & Applications	4	0	0	4	4
4.	EE 436/ EE 436H	Utilization of Electric Energy & Illumination Engg.	4	0	0	4	4
5.	EE 437	Departmental Lab-6	0	0	3	3	2
6.	EE 438	Departmental Lab-7	0	0	3	3	2

7. EE 497 Capstone Project-II 0 0 8 8 4

**Total 16 0 14 30 24**

### Elective-I

Sr.No.	Course ID	Course Name
1.	EE 331	Electric Drives
2.	EE 332	Power System Operation and Control
3.	EE 333	Computer Architecture and Organisation

### Elective-II and Elective-III

Sr.No.	Course ID	Course Name
1.	EE 441	Electrical Machine Design
2.	EE 442	Neural Networks & Fuzzy Systems
3.	EE 443	Biomedical Engineering
4.	EE 444	Advanced Microprocessors
5.	EE 445	Digital Control Systems
6.	EE 446	Applied Mechatronics
7.	EE 447	Advanced Power Electronics
8.	EE 448	Non-Conventional Energy Systems
9.	EE 449	DSP & Applications
10.	EE 450	Static Reactive Power Control & FACTS
11.	EE 451	High Voltage Engineering
12.	EE 452	Optimization Techniques
13.	EE 453	Electrical Instrumentation & Process Control
14.	EE 454	Data Structures Using 'C'

### Open Electives

Sr.No.	Course ID	Course Name
1.	EE 455	Advanced Control Systems
2.	EE 456	System Dynamics & Applications
3.	EE 457	Renewable Energy Systems
4.	EE 458	Neuro Fuzzy Systems

### Humanities-II

Sr.No.	Course ID	Course Name
1.	HU 301/HU 302H	Management Concepts and Practices
2.	HU 302/HU 302H	Entrepreneurship

### Humanities-III

Sr.No.	Course ID	Course Name
1.	HU 404/HU 404H	Corporate Finance
2.	HU 402/HU 402 H	Business Environment and Industrial Legislation

### Design Points

Sr.No.	Course Code	Course Name	Design Points
1	EE 212	Electrical Measurements & Instrumentation	2
2	EE214	Electrical Machines-I	2
3	EN 204	Power Electronics	2
4	EE 227	Analog & Digital Electronics	2
5	EE 228	Microprocessor and Interfacing	2
6	EE 322	Electrical Machines-II	2
7	EE 323	Switchgear and Protection	2
8	EE 325	Control Systems	2
9	EE 430	Computer Aided Power System Analysis	2
10	EE 431	Modern Control Systems	2
11	EE 435	Microcontrollers, PLCs and Applications	2
12		Departmental Lab-I to VII	14
<b>TOTAL</b>			<b>36</b>

